



RSPro Production Series

A New Dimension in Stereolithography 3D Printing

- Cost-effective ownership throughout entire life cycle.
- Freedom to collaborate and innovate: open design for materials and machine access.
- Printed parts demonstrate excellent sidewall quality and fine detail, contributing to lower post-finishing requirements.

System Features

- Scanning speed of up to 12-15 m/s.
- Closed-loop control regulates platform movement, laser power, resin level, resin temperature, and vacuum pressure to ensure accuracy and stability.
- Granite recoater rim for enhanced stability.
- Layer thickness as low as 0.002-0.003 in (0.05-0.07 mm) for excellent surface quality.
- Ethernet connectivity
- Plunger-style leveling.
- Pump-fed auto refill capability.
- Components from top international brands—Optowave/Spectra-Physics, SCANLAB, and Panasonic.
- Full freedom of choice in materials: equipment uses any 355 nm SL material.
- Three levels of access (Operator, Engineer, and Expert) controlled by user.

Versatile Application Range · High Accuracy · Excellent Surface Aesthetics



Technical Data

* Specifications are subject to change; consult with your sales representative for confirmation of current offering.

| | RSPro 600 | RSPro 800 |
|-------------------------|--|--|
| Build Envelope Capacity | 23.6 × 23.6 × 19.7 in (600 × 600 × 500 mm) | 31.5 × 31.5 × 21.7 in (800 × 800 × 550 mm) |
| Maximum Part Weight | 169.8 lb (77 kg) | 330.7 lb (150 kg) |
| Accuracy | Part size < 3.9 in (100 mm): ±0.004 in (±0.1 mm) Part size ≥ 3.9 in (100 mm): ±0.1% x L | Part size < 3.9 in (100 mm): ±0.006 in (±0.15 mm) Part size ≥ 3.9 in (100 mm): ±0.15% x L |
| Beam Size | Nominal 0.005 -0.008 in (0.12 - 0.20mm) | Nominal 0.005 - 0.008 in (0.12 - 0.20 mm) |
| Scanning Speed | 12m/s (Maximum); 6-10m/s (Typical) | 12m/s (Maximum); 6-10m/s (Typical) |
| Layer Thickness | 0.002 in (0.05 mm) minimum; 0.01 in (0.25 mm) maximum | 0.003 in (0.07 mm) minimum; 0.01 in (0.25 mm) maximum |
| Weight | 3968 lb (1,800 kg) (with 728 lb (330 kg) initial fill inside) | 4409 lb (2000 kg) (with 1235 lb (560 kg) initial fill inside) |
| Machine Size (WxDxH) | 62.9 × 63.5 × 83.5 in (1598 × 1612 × 2121 mm) | 70.8 × 63.1 × 83.4 in (1798 × 1602 × 2118 mm) |

RSPro 600 / 800

| | |
|---------------------------|--|
| Laser | Solid-state frequency tripled Nd: YVO ₄ |
| Wavelength | 354.7 nm |
| Controller | UnionTech™ RSCON |
| Part Preparation | Materialise Magics |
| Operating Systems | Windows 7, Windows 10 |
| Input Data File Format | STL |
| Network Type and Protocol | Ethernet, IEEE 802.3 using TCP/IP and NFS |
| Electrical Requirements | 200-240 VAC, 50/60 Hz, single phase |
| Laser Warranty | 5,000 hours or 15 months (whichever comes first) |
| Base Plate/Recoater Rim | Granite |
| Systems Control | Closed-loop |
| Power (nominal) | At head 800 mW (typical 300 mW at material surface under nominal optical path condition) |

Operating Environment:

| | |
|---------------------|-----------------------|
| Temperature Range | 72–79°F (22–26°C) |
| Maximum Change Rate | 1 °C/hour |
| Relative Humidity | < 40 % non-condensing |

Accessories :

| | |
|--------------------------|---|
| Platform Change Carts | Manual offload cart optional |
| Processing and Finishing | Post-Curing Unit |
| System Warranty | One-year warranty (under UnionTech's Purchase Terms and Conditions) |

UnionTech

Shanghai Union Technology Corporation
Room 102, Unit 40, 258 Xinzhuang Rd, Shanghai, 201612, China
enquiry@uniontech3d.cn
www.uniontech3d.com

Union Tech, Inc.
100 Illinois St., Suite 200, St. Charles, Illinois, 60177, USA
info@uniontech3d.com

UnionTech GmbH
Friedrich-Ebert Anlage 36, Frankfurt, Hessen, 60325, Germany
info@uniontech3d.com